

kiChart Developer Guide

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1 Introduction

1.1 Overview



kiChart is a chart solutions on android platform, you can use it to create your android chart applications. It's easy to use, effectively and powerfully. It will save your valuable time in developing.

Features:

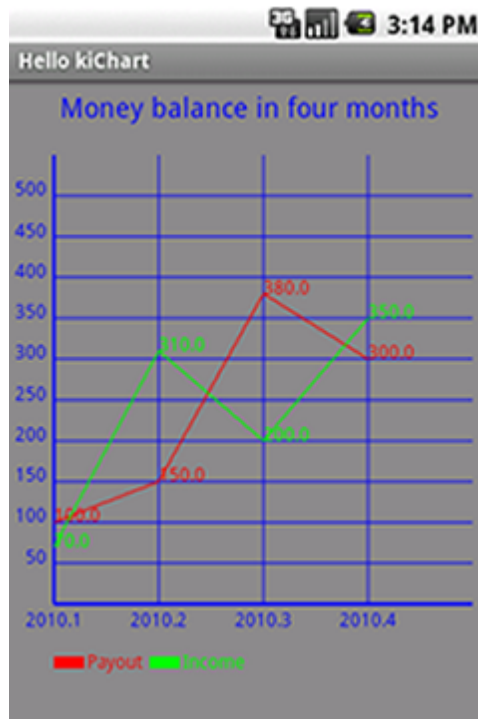
kiChart provides set of the basic used chart types:

- * Line Chart
- * Bar Chart

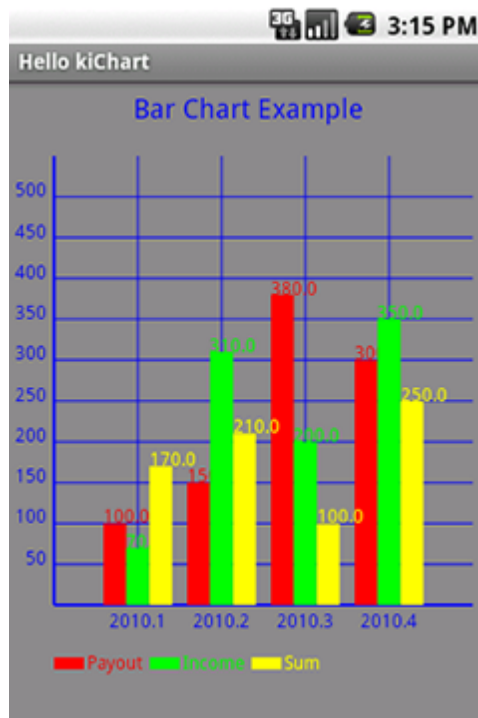
Other functions:

- * Support multiple series
- * Export chart as image file
- * Define the parameters: margin, size, font color, font size and etc.

1.2 Screenshots



[Line Chart]



[Bar Chart]

1.3 Usage

Code snippet:

```
package com.kidroid.hellochart;

import com.kidroid.kichart.ChartActivity;
import com.kidroid.kichart.model.Aitem;
import com.kidroid.kichart.view.LineView;

import android.graphics.Color;
import android.os.Bundle;

public class LineChart extends ChartActivity {

    LineView lv = null;

    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        String[] arrX = new String[4];
        arrX[0] = "2010.1";
        arrX[1] = "2010.2";
        arrX[2] = "2010.3";
        arrX[3] = "2010.4";

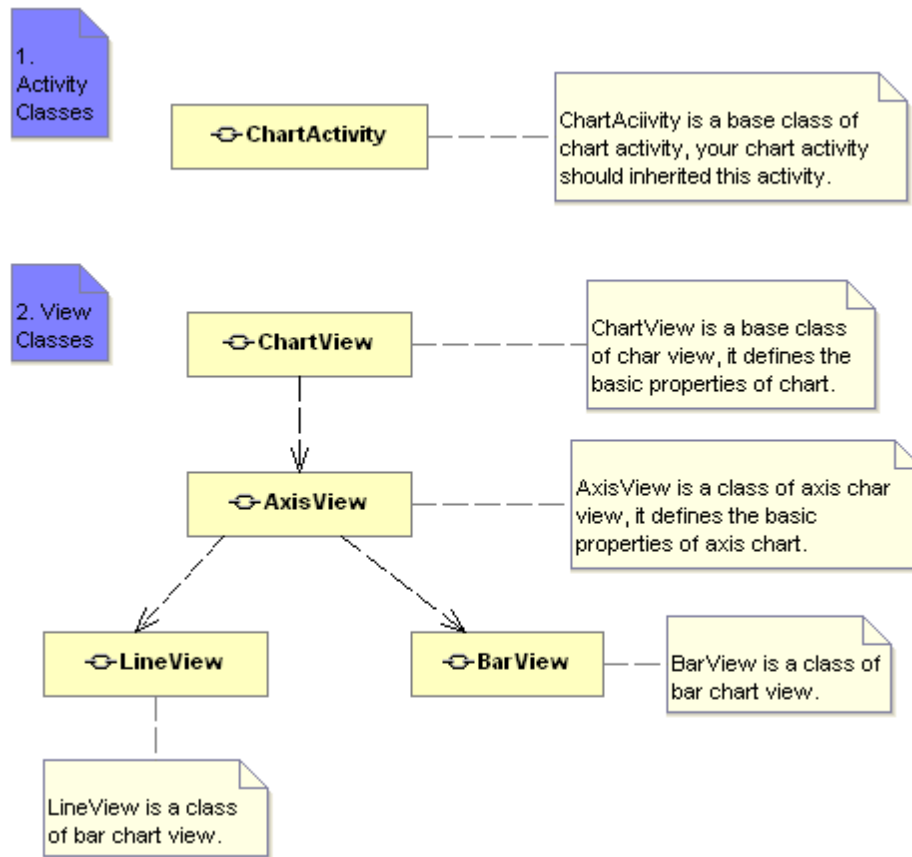
        float[] arr = new float[4];
        arr[0] = 100;
        arr[1] = 150;
        arr[2] = 380;
        arr[3] = 300;

        float[] arr2 = new float[4];
        arr2[0] = 70;
        arr2[1] = 310;
        arr2[2] = 200;
        arr2[3] = 350;

        Aitem[] items = new Aitem[2];
        items[0] = new Aitem(Color.RED, "Payout", arr);
        items[1] = new Aitem(Color.GREEN, "Income", arr2);

        lv = new LineView(this);
        lv.setTitle("Money balance in four months");
        lv.setAxisValueX(arrX);
        lv.setItems(items);
        setContentView(lv);
    }
}
```

2 Class Diagram



3 ChartActivity

ChartActivity is a base class of chart activity, your chart activity should inherited this activity.

4 ChartView

ChartView is a root class of char view, it defines the basic properties of chart.

4.1 Properties

4.1.1 backgroundColor

```
private int backgroundColor;
```

Description:

It defines the background color of chart.

4.1.2 chartHeight

```
protected int chartHeight;
```

Description:

It defines the height of chart, this value must be smaller than "canvas height - marginTop".

4.1.3 chartWidth

```
protected int chartWidth;
```

Description:

It defines the width of chart, this value must be smaller than "canvas width - marginRight".

4.1.4 items

```
protected Object[] items;
```

Description:

It defines the series data of chart.

4.1.5 marginBottom

```
protected int marginBottom;
```

Description:

It defines the bottom margin of chart. if you set a normal value of chartHeight, this property will be ignored.

4.1.6 marginLeft

```
protected int marginLeft;
```

Description:

It defines the left margin of chart.

4.1.7 marginRight

```
protected int marginRight;
```

Description:

It defines the right margin of chart. if you set a normal value

of `chartWidth`, this property will be ignored.

4.1.8 `marginTop`

```
protected int marginTop;
```

Description:

It defines the top margin of chart.

4.1.9 `title`

```
private String title;
```

Description:

It defines the title of chart.

4.1.10 `titleColor`

```
private String titleColor;
```

Description:

It defines the title color of chart.

4.1.11 `titleSize`

```
private String titleSize;
```

Description:

It defines the title size of chart.

4.2 Methods

4.2.1 `exportImage`

```
public boolean exportImage(String fileName)
```

Description:

It can export chart as a image file(png format).

Parameters:

fileName: the file name of export file.

5 AxisView

AxisView is a class of axis char view, it defines the basic properties of axis chart.

5.1 Properties

5.1.1 axisColor

```
protected int axisColor;
```

Description:

It defines the axis color of chart.

5.1.2 axisTextSize

```
protected int axisTextSize;
```

Description:

It defines the axis text size of chart.

5.1.3 axisValueX

```
protected String[] axisValueX;
```

Description:

It defines the X'axis values of chart.

5.1.4 intervalCount

```
protected int intervalCount;
```

Description:

It defines the Y'axis interval count of chart.

5.1.5 intervalValue

```
protected int intervalCount;
```

Description:

It defines the Y'axis interval value of chart.

5.1.6 valueGenerate

```
protected boolean valueGenerate;
```

Description:

It generates the Y'axis interval value of chart automatically or not. if value as true, the intervalValue will be ignored.

6 BarView

BarView is a class of bar chart view.

7 LineView

LineView is a class of bar chart view.

8 Altem

Altem defines the data of axis chart. it contains color, name and values.

8.1 Properties

8.1.1 color

```
private int color;
```

Description:

It defines the color of data object.

8.1.2 name

```
private String name;
```

Description:

It defines the name of data object.

8.1.3 values

```
private float[] values;
```

Description:

It defines the values of data object.